

What is claimed is:

1. An aqueous coating liquid for forming a magnesium oxide film comprising:

(a) a magnesium carboxylate derived from a carboxylic acid having 1 to 6 carbon atoms;

(b) a surfactant;

(c) a polyhydric alcohol compound; and

(d) a solvent made substantially of water;

wherein the magnesium carboxylate is contained in a ratio of 5 wt% or more and 50 wt% or less; the surfactant is contained in a ratio of 0.01 wt% or more and 2.5 wt% or less; and the polyhydric alcohol compound is contained in a ratio of 0.05 wt% or more and 40 wt% or less, based on a weight of the entire coating liquid,

a content of the magnesium carboxylate is the same with or larger than that of the polyhydric alcohol compound, and a total weight of the magnesium carboxylate and the polyhydric alcohol compound is 80 wt% or less of the weight of the entire coating liquid, and

the magnesium carboxylate, the surfactant, and the polyhydric alcohol compound are dissolved in the solvent.

2. The aqueous coating liquid for forming a magnesium oxide film of claim 1, wherein the polyhydric alcohol compound has a molecular weight of 1000 or less.

3. The aqueous coating liquid for forming a magnesium oxide film of claim 1, wherein the surfactant is free from a metal element and a halogen element.